Released: June 2010

Next MECS will be conducted in 2010

Table 10.21

Reasons that Made Natural Gas Unswitchable, 2006;

Level: National Data;

Row: NAICS Codes;
Column: Reasons that Made Quantity Unswitchable;
Unit: Billion cubic feet.

Reasons that Made Natural Gas Unswitchable

NAICS Code(a)	Subsector and Industry	Total Amount of Natural Gas Consumed as a Fuel Na	Total Amount of Unswitchable tural Gas Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching Adversely Affects the Products		Environmental		Unavailable Storage for And Alternative Fuels(d) Rea		Combinations of Columns F, G, H, I, J, and K	Don't Know
Total United States												
311	Food	618	379		Q		50	3	1	0	12	
3112 311221	Grain and Oilseed Milling Wet Corn Milling	115 51	81 44	67 37		0	4	0	0	0	1	8 6
31131	Sugar Manufacturing	17	10		0		0	0	0	0	2	
3114	Fruit and Vegetable Preserving and Specialty Foods	123	58		*	*	3	*	0	0	1	
3115	Dairy Products	80	58		Q	*		*	1	0	1	2
3116	Animal Slaughtering and Processing	141	92		*	1	30	1	*	0	4	
312 3121	Beverage and Tobacco Products	40 37	16 16		0		1	0		0	3	
3121	Beverages Tobacco	37	16	10	0	-	1	0	0	0		
313	Textile Mills	63	32	Q	0		0	0	0	0	2	
314	Textile Product Mills	45	7	5	0	Q	*	0	0	0		*
315	Apparel	7	2	2	0	-	0	*	0	0	0	
316	Leather and Allied Products	1		1	0	•	0	0	0	0	0	
321 321113	Wood Products Sawmills	84 12	47 5	39 4	1	Q	1	0		0	1	. 4
321113	Veneer, Plywood, and Engineered Woods	44	35			Q		0	0	0	1	Q
3219	Other Wood Products	27	6				*	0	0	0		1
322	Paper	461	324	246	1	8	21	1	*	0	31	17
322110	Pulp Mills	13	7	4	0	•	2	0	0	0	1	
322121	Paper Mills, except Newsprint	169	120		*	7	5	0	*	0	17	
322122	Newsprint Mills	8	3		0	0	0	0	0	0	0	
322130 323	Paperboard Mills Printing and Related Support	138 38	91 24	64 18	Q	1	10 0	1 0	0	0	Q	
324	Petroleum and Coal Products	825	632		*	4	16	*	4	0	32	
324110	Petroleum Refineries	766	595			4	16	0	2	0	31	
324199	Other Petroleum and Coal Products	3	2		*	*	*	0	0	0	*	*
325	Chemicals	1,355	1,121	954	2		31	13	2	0	68	
325110 325120	Petrochemicals Industrial Gases	107 13	98 12		0		0	0 1	0	0	W 0	
325120	Alkalies and Chlorine	103	76		0		0	0	0	0	0	
325182	Carbon Black	10	8		1	0	2	0	0	0	2	
325188	Other Basic Inorganic Chemicals	52	40	30			1	Q	*	0	3	
325192	Cyclic Crudes and Intermediates	15	8		0	-	0	0	0	0	2	
325193	Ethyl Alcohol	80	60		1	0	1	0	0	0	3	
325199 325211	Other Basic Organic Chemicals Plastics Materials and Resins	298 324	251 289	211 277	0	1	7	8 1	-	0	8 2	
325211	Synthetic Rubber	25	209	18	0	0	*	0	· ·	0	2	
325222	Noncellulosic Organic Fibers	33	10		0	-	*	*	*	0	6	
325311	Nitrogenous Fertilizers	113	112	100	0	0	0	0	0	0	5	7
325312	Phosphatic Fertilizers	11	10		0		0	0	*	0	1	*
3254	Pharmaceuticals and Medicines	45	21	15	0		2	2	*	0	1	1
325412 325992	Pharmaceutical Preparation Photographic Film, Paper, Plate, and Chemicals	30 7	15 5		0		1 2	2	0	0	0	, ,
326	Plastics and Rubber Products	124	50		1	*	Q		Q	0	Q	
327	Nonmetallic Mineral Products	446	271	231	5	1	3	*	7	Ö	14	
327211	Flat Glass	50	21	17	0	0	3	0	0	0	1	
327212	Other Pressed and Blown Glass and Glassware	Q	Q		1	1	0	0	*	0	*	2
327213	Glass Containers	49	34		0	0	0	0	0	0	1	. 1
327215 327310	Glass Products from Purchased Glass Cements	50 19	13 11		0	0			0	0		1
327410	Lime	5	5		*	*	0	0	0	0		
327420	Gypsum	74	62		0	0	*	0	0	0	1	
327993	Mineral Wool	33	22	17		*	0	*	0	0	1	3
331	Primary Metals	568	444	369	1	34	10	2	3	0	9	
331111	Iron and Steel Mills	317	258	210	0		3	0	1	0	3	
331112 3312	Electrometallurgical Ferroalloy Products Steel Products from Purchased Steel	1 25	1 20	1 18	0	0	0		0	0	0	0
3312	Alumina and Aluminum	25 113	20 89		0		*	*	0	0	2	
331314	Secondary Smelting and Alloying of Aluminum	17	13		0		*	0	0	0	1	-
331315	Aluminum Sheet, Plate and Foils	36	28		0	*	0	0	0	0		2
331316	Aluminum Extruded Products	17	9	8	0	*	*	*	0	0	1	*

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NAICS Code(a)	Subsector and Industry	Total Amount of Natural Gas Consumed as a Fuel	Total Amount of Unswitchable Natural Gas Fuel Use		Switching Adversely Affects the Products				Unavailable Storage for Alternative Fuels(d		Combinations of Columns F, G, H, I, J, and K	Don't Know
3314	Nonferrous Metals, except Aluminum	42	28	18	*		6	0		1 0	2	. 1
3315	Foundries	70	48	41	1	1		1		1 0		3
331511	Iron Foundries	23	16	15	*			*		* 0		*
331521	Aluminum Die-Casting Foundries	15	10	7	*		0	1		* 0		1
331524	Aluminum Foundries, except Die-Casting	13	6	5	0	0	0	0		* 0		1
332	Fabricated Metal Products	234	167	145	*	· Q	*	*	(0 0	Q	2
333	Machinery	82	46	33	Q	. Q	0	0		0 0	Q	Q
334	Computer and Electronic Products	44	25	16	*		1	*		0 0	2	Q
334413	Semiconductors and Related Devices	18	12	7	0		1	*		0 0	2	. Q
335	Electrical Equip., Appliances, and Components	40	26	21	*	Q	0	0	(0 0	Q	2
336	Transportation Equipment	242	188	167	*	· Q	3	Q		* 0	10	5
336111	Automobiles	21	15	13	0	•	0	0		0 0	0	2
336112	Light Trucks and Utility Vehicles	24	19	17	0	0	0	0		0 0	2	. *
3364	Aerospace Product and Parts	30	20	16	0	•	3	*		* 0		1
336411	Aircraft	8	5	2	0	•	2	0		0 0	0	. *
337	Furniture and Related Products	16	10	8	0	0	0	0	(0 (1

14

3,178

0

23

0

18

3,828

24

5,357

Reasons that Made Natural Gas Unswitchable

0

0

141

0

0

205

0

Miscellaneous

Total

339

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.

⁽a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).

⁽b) The environmental resrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

⁽c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

⁽d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

NF=No applicable RSE row/column factor.

^{*} Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent. NA=Not available.